



# The Patent Office

... of the detecting agent can be exhibited even in atmos. of  
acidic gas such as carbonic acid gas and the taste of packaged dry  
foods is not affected. The oxygen detecting agent has excellent light  
resistance and storage stability and can be easily handled.

O/O

Derwent Class: B07; D13; E36; J04

International Patent Class (Additional): G01N-021/78; G01N-031/22

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WPI Acc No: 84-162129/198426

Oxygen indicator reversibly changing yellow to black - comprises plastics  
and/or metal base coated with ink or paint contg. bis(salicylaldehyde)  
3-3 diimino propylamine cobalt (deriv.)

Patent Assignee: TOYO INK MFG CO (TOXW )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 59087364	A	19840519	JP 82195947	A	19821110		198426 B

Priority Applications (No Type Date): JP 82195947 A 19821110

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 59087364	A		4			

Abstract (Basic): JP 59087364 A

The base is e.g. plastics film, metal foil such as Al, paper,  
cloth, etc. or a complex film.

The indicator works by O<sub>2</sub> alone and does not need water or other  
cpds. Powdery bis(salicylaldehyde)-3,3'-diiminodipropylamine cobalt  
(deriv.) pref. activated before use by e.g. subliming it by heat,  
pulverising it finely or by immersing it in pyridine and then  
evaporating away the pyridine by heat. The binder for making printing  
ink or paint is e.g. PVC-PVAc copolymer.

The indicator changes sensitively and reversibly e.g. from yellow  
to black according to the concn. of oxygen and is useful for  
ascertaining the absence of oxygen in e.g. food packaging. The  
indicator changes colour in the presence of oxygen of 0.1% in the air  
and is excellent in the storage stability.

O/O

Derwent Class: A89; E12; E36; J04

International Patent Class (Additional): G01N-031/22